

Agricultural Waste Management

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Humboldt County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
6: Okoboji, depressional-----	83	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Leaching limitation	0.70	Restricted permeability	0.22	Restricted permeability	0.22
		Restricted permeability	0.30				
27B: Terril-----	85	Not limited		Not limited		Somewhat limited	
						Too steep for surface application	0.08
54: Zook-----	80	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Flooding	1.00	Restricted permeability	1.00
		Flooding	0.60	Restricted permeability	1.00	Flooding	0.60
		Leaching limitation	0.50				
55: Nicollet-----	75	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
62F: Storden-----	78	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep for sprinkler application	1.00
						Too steep for surface application	1.00
90: Okoboji, mucky, depressional-----	83	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00	Ponding	1.00

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		Leaching limitation	0.70	Restricted permeability	0.22	Restricted permeability	0.22
		Restricted permeability	0.30				
95: Harps-----	83	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70				
107: Webster-----	80	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70				
135: Coland-----	83	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70	Flooding	1.00	Flooding	0.60
		Flooding	0.60				
138B: Clarion-----	80	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
138C2: Clarion, moderately eroded-----	78	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.92 0.02
175: Dickinson-----	85	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Droughty	0.05	Droughty	0.05	Droughty	0.05
Wadena-----	3	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
175B: Dickinson-----	75	Very limited Filtering capacity Droughty	1.00 0.05	Very limited Filtering capacity Droughty	1.00 0.05	Very limited Filtering capacity Too steep for surface application Droughty	1.00 0.08 0.05
175C: Dickinson-----	83	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application Too steep for sprinkler application	1.00 0.92 0.02
188: Kensett-----	90	Very limited Depth to saturated zone Depth to bedrock Droughty	1.00 0.26 0.01	Very limited Depth to saturated zone Depth to bedrock Droughty	1.00 0.26 0.01	Very limited Depth to saturated zone Depth to bedrock Droughty	1.00 0.26 0.01
201B: Coland-----	55	Very limited Depth to saturated zone Leaching limitation Flooding	1.00 0.70 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
Terril-----	35	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
203: Cylinder-----	75	Very limited		Very limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
221: Klossner, depressional-----	88	Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Low adsorption	1.00	Ponding	1.00
		Leaching limitation	0.90	Ponding	1.00		
236B: Lester-----	83	Not limited		Not limited		Somewhat limited	
						Too steep for surface application	0.08
236C: Lester-----	81	Not limited		Not limited		Somewhat limited	
						Too steep for surface application	0.92
						Too steep for sprinkler application	0.02
236C2: Lester-----	76	Not limited		Not limited		Somewhat limited	
						Too steep for surface application	0.92
						Too steep for sprinkler application	0.02
236D2: Lester-----	83	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Too steep for surface application	1.00
						Too steep for sprinkler application	0.78

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
236E: Lester-----	86	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application Too steep for sprinkler application	1.00 1.00
236F: Lester-----	80	Very limited Slope  Too acid	1.00  0.03	Very limited Slope  Too acid	1.00  0.14	Very limited Too steep for sprinkler application Too steep for surface application Too acid	1.00  1.00 0.14
253B: Farrar-----	85	Very limited Depth to dense layer	1.00	Not limited		Somewhat limited Too steep for surface application	0.08
253C: Farrar-----	85	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.92 0.02
256G: Lester-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for sprinkler application Too steep for surface application	1.00 1.00
Storden-----	38	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for sprinkler application	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for surface application	1.00
259: Biscay, 32 to 40 inches to sand and gravel-----	70	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Leaching limitation	0.70				
274: Rolfe, depressional-	85	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Too acid	0.02	Too acid	0.07	Too acid	0.07
308: Wadena, 32 to 40 inches to sand and gravel-----	75	Very limited		Very limited		Very limited	
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
308B: Wadena, 32 to 40 inches to sand and gravel-----	85	Very limited		Very limited		Very limited	
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
						Too steep for surface application	0.08
330: Kingston-----	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
338: Garmore-----	78	Somewhat limited		Somewhat limited		Somewhat limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Too acid	0.02	Too acid	0.07	Too acid	0.07
339: Truman-----	90	Not limited		Not limited		Not limited	
339B: Truman-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
344B: Copaston-----	80	Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Droughty	1.00	Droughty	1.00
		Droughty	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Runoff limitation	0.40				
354: Aquolls, (marsh), ponded-----	80	Not Rated		Very limited		Very limited	
		Not Rated		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Low adsorption	1.00	Low adsorption	1.00
		Low adsorption	1.00	Ponding	1.00	Ponding	1.00
		Ponding	1.00				
485: Spillville-----	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Flooding	1.00	Depth to saturated zone	1.00
		Flooding	0.60	Depth to saturated zone	1.00	Flooding	0.60
506: Wacousta-----	83	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Leaching limitation	0.70				
507: Canisteo-----	75	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
508: Calcousta-----	83	Leaching limitation	0.70				
		Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Leaching limitation	0.70				
526: Wacousta-----	83	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Leaching limitation	0.70				
536: Hanlon-----	85	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
638C2: Clarion, moderately eroded-----	50	Not limited		Not limited		Somewhat limited	
						Too steep for surface application	0.92
						Too steep for sprinkler application	0.02
Storden, moderately eroded-----	35	Not limited		Not limited		Somewhat limited	
						Too steep for surface application	0.92
						Too steep for sprinkler application	0.02
659: Mayer-----	80	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00



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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Leaching limitation	0.70				
823: Ridgeport-----	75	Very limited Filtering capacity Droughty	1.00 0.89	Very limited Filtering capacity Droughty	1.00 0.89	Very limited Filtering capacity Droughty	1.00 0.89
823B: Ridgeport-----	86	Very limited Filtering capacity Droughty	1.00 0.89	Very limited Filtering capacity Droughty	1.00 0.89	Very limited Filtering capacity Droughty Too steep for surface application	1.00 0.89 0.08
823C2: Ridgeport, moderately eroded--	85	Very limited Filtering capacity Droughty	1.00 0.91	Very limited Filtering capacity Droughty	1.00 0.91	Very limited Filtering capacity Too steep for surface application Droughty Too steep for sprinkler application	1.00 0.92 0.91 0.02
828B: Zenor-----	88	Very limited Filtering capacity Droughty	1.00 0.79	Very limited Filtering capacity Droughty	1.00 0.79	Very limited Filtering capacity Droughty Too steep for surface application	1.00 0.79 0.08
828C2: Zenor, moderately eroded-----	79	Very limited Filtering capacity Droughty	1.00 0.88	Very limited Filtering capacity Droughty	1.00 0.88	Very limited Filtering capacity Too steep for surface application	1.00 0.92

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829D2: Zenor, moderately eroded-----	45	Very limited		Very limited		Droughty	0.88
						Too steep for sprinkler application	0.02
						Very limited	
						Filtering capacity	1.00
						Droughty	0.88
Storden, moderately eroded-----	35	Somewhat limited		Somewhat limited		Too steep for surface application	1.00
						Droughty	0.88
						Too steep for sprinkler application	0.78
						Slope	0.63
						Too steep for surface application	1.00
835D2: Storden, moderately eroded-----	50	Somewhat limited		Somewhat limited		Too steep for sprinkler application	0.78
						Very limited	
						Slope	0.63
						Too steep for surface application	1.00
						Too steep for sprinkler application	0.78
Omsrud, moderately eroded-----	35	Somewhat limited		Somewhat limited			
						Very limited	
						Slope	0.63
						Too steep for surface application	1.00
						Too steep for sprinkler application	0.78

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
835E2: Storden, moderately eroded-----	50	Very limited  Slope	 1.00	Very limited  Slope	 1.00	Very limited  Too steep for surface application Too steep for sprinkler application	 1.00  1.00
Omsrud, moderately eroded-----	35	Very limited  Slope	 1.00	Very limited  Slope	 1.00	Very limited  Too steep for surface application Too steep for sprinkler application	 1.00  1.00
956: Harps-----	45	Very limited Depth to saturated zone Leaching limitation	1.00 0.70	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
Okoboji-----	35	Very limited Depth to saturated zone Ponding Leaching limitation Restricted permeability	1.00 1.00 0.70 0.30	Very limited Depth to saturated zone Ponding Restricted permeability	1.00 1.00 0.22	Very limited Depth to saturated zone Ponding Restricted permeability	1.00 1.00 0.22
1585: Spillville-----	45	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
Coland-----	35	Very limited Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.70	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 1.00

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4000: Urban Land-----	100	Not rated		Not rated		Not rated	
5010: Pits, Gravel-----	100	Not rated		Not rated		Not rated	
5030: Pits, Quarries-----	100	Not rated		Not rated		Not rated	
5040: Udorthents-----	100	Not rated		Not rated		Not rated	
5080: Udorthents-----	100	Not rated		Not rated		Not rated	
AW: Animal Waste Lagoon-	100	Not rated		Not rated		Not rated	
SL: Sewage Lagoon-----	100	Not rated		Not rated		Not rated	
W: Water-----	100	Not rated		Not rated		Not rated	